

Data sheet

Switch mode power supply: SNT9424-HD-S

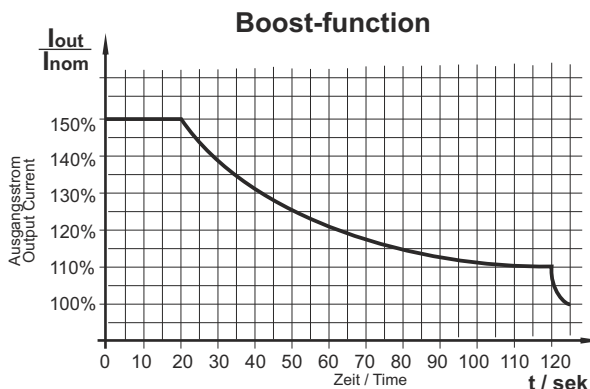
Technical data



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Products of the series:

Type	SNT9412	SNT9424	SNT9448
Order number	588112	588124	588148
Output voltage	12V _{DC}	24V _{DC}	48V _{DC}
Output current	20A	12A	6A



General data

Type	SNT9424-HD-S
FEAS Order number	588125
Product description	Switch mode power supply
Product function	DC power supply

Input data

AC input voltage	85 - 270V _{AC} (0-66Hz)
DC input voltage	120 - 400V _{DC}
Input current at nominal load	at 115V _{AC} max. 3.0A / at 230V _{AC} max. 1.5A
Input current peak	< 8.2 A at 270V _{AC}
Protective circuit	Transient voltage suppressor Varistor

Output data

Output voltage U _{Nominal}	24V _{DC}
Range of adjustment	22.5 30.0V _{DC}
Output current I _{Nominal}	12.0A
Current limiting	1.5 x I _{Nominal} / 18.0A
Fuse-Mode	-
Power nominal / maximum	288 Watt / 432 Watt
Residual ripple (20MHz Bandwidth)	<50mV _{pp}

Control data

Control deviation (Load)	<200mV with load variation 10 90%
Control deviation (Supply)	<10mV with load variation ±10%
Control time	<10ms with load variation 10 90%

Operating data

Duty circle	100%
Efficiency	>93%
Parallel connection	Yes
Operating temperature range	- 40°C to +70°C
Storage temperature range	- 40°C to +105°C
Derating	from 50°C
Cooling	selfcooling
Installation altitude	unlimited
MTBF	> 380.000h

Safety devices

Fuse for input	at 115V _{AC} 5.0A delayed / at 230V _{AC} 3.0A delayed
Fuse for output	not necessary - short circuit proof
Overload protection	integrated into device
Hold-up time	20 ms typ.

Safety data

Test voltage transformer	5kV _{AC} according to VDE0551
High voltage resistance	Input/Output 4.4 kV _{AC} according to VDE0806/IEC380
Degree of EMI suppression	according to VDE0871B, EN55022/B
Protection class	Protection class I with PE-Connection (EN60950)
Extra low safety potential	PELV (EN60204), SELV (EN60950)
Ambient humidity	95% relative humidity, yearly average dewing allowed for use in tropical ambient
Protective class enclosure	IP65
Protective class terminals	IP20 (BGV A3)
Vibration proof	>30g at 33Hz in X, Y and Z according to IEC68 and DIN41640

Status & Signal

Status indicator	LED - Line In, Overload, Temperature
Signals	Relay - Overload, Temperature

Applied construction regulations

according to VDE	VDE0100, VDE0110, VDE0113, VDE0551, VDE0160/W2, VDE0806
IEC	IEC60950, IEC61000-6-1-2-3-4, IEC60068-2-3, IEC60068-2-11-52, IEC60529, IEC380
EN	EN60950-1, EN61140, EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4, EN55022, EN55011, EN61000-3-2, EN61000-3-3, EN50204, EN60204, EN60529, EN61000-4-2-3-4-5-6-8-11, EN60068-1, EN6068-2-1-2-3-6-27-30, EN45501, EN50021, EN61558-2-17, EN50178
CSA/UL	CSA-C 22.2 / UI60950, UI508, UL1950

Mechanical data

Mounting	on DIN-rail acc. DIN46277
Dimensions (W x H x D)	162,0mm x 100mm x 120mm
Weight	approx. 3.80kg



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